Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office		Predecessor SERIAL NO. 10/323,101	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Bast, et al.		
(Use several sheets if necessary)		FILING DATE herewith	GROUP	

U.S. PATENT DOCUMENTS

	to si		FO	REIGN PATENT DOCUMENTS	\$	•		_
		US 6,001,631	12/14/99	Blanche et al	435	233	1/24/97	
Initial		Number				;	If Appropriate	
Examiner		Document	Date	Name	Class	Sübclass	Filing Date	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Andriole, V.T., The Future of the Quinolones, Drugs, Vol 58, Suppl 2, 1-5 (1999)
Baranova et al., Apparent involvement of a multidrug transporter in the fluoroquinolone resistance of streptococcus pneumoniae, Antimicrobial Agents and Chemotherapy, June 1997, 1396-1398
Breiman, et al., Emergence of Drug-Resistant Pneumococcal Infections in the United States, JAMA, June 15, 1994, Vol 271, No. 23, 1831-1835
Brenwald et al., The effect of reserpine, an inhibitor of multi-drug efflux pumps, on the in-vitro susceptibilities of fluoroquinolone-resistant strains of streptococcus pneumoniae to norfloxacin, J. Antimicrob Chemother 1997, 40, 458-460
Brenwald, et al, Prevalence of a Putative Efflux mechanism among Fluoroquinolone-Resistant. Clinical Isolates of Streptococcus pneumoniae, Antimicrobial Agents and Chemotherapy, 42(8): 2032-2035 (1998)
Brenwald, et al., Grepafloxacin vs Pneumococci Resistant to Fluoroquinolones by a Putative Efflux Mechanism, Drugs, Vol 58, Suppl 2, 117-118 (1999)
Bryskier, A., Update, Anti-infectives, Novelties in the field of fluoroquinolones, Exp. Opin. Invest. Drugs (1997) 6(9):1227-1245
Chen, D.K., et al., Decreased Susceptibility of Streptococcus Pneumoniae to Fluoroquinolones in Canada, New England Jnl of Medicine, Vol 341, No. 4, 233-239 (July 22, 1999)
Chu, D.T.W., The Future Role of Quinolones, Exp. Opin. Ther. Patents (1996) 6(8) 711-737
Davies, et al., In vitro Development of Resistance to Five Quinolones and Amoxicillin-Clavulanate in Streptococcus pneumoniae, Antimicrobial Agents and Chemotherapy, 43(5): 1177-1182 (1999)

¥	
	Discotto, L.F., et al., 38th Interscience Conference on Antimicrobial Agents and Chemotherapy
_	(ICAAC), September 24-27, 1998, San Diego, CA, USA, Exp. Opin. Invest. Drugs (1998) 7(12) 2061-2977
	Drugline, Molecule of the Month, Drug News Perspect 11(8), October 1998, 505
	Erwin, M.E., et al., Studies to Establish Quality Control Ranges for SB-265805 (LB20304) When
	Using National Committee for Clinical Laboratory Standards Antimicrobial Susceptibility Test
	Methods, Journal of Clinical Microbiology, Jan. 1999, 279-280
	Friedland, et al., Management of Infections Caused by Antibiotic-Resistant Streptococcus
	pneumoniae, New England Journal of Medicine, 331(6): 377-382 (1994)
	Garau, J., The Role of Quinolones in the Treatment of Community-Acquired Pneumonia, Medicina
	Clinica, Vol 110, Suppl 1, 31-35 (Feb 1998), and English language abstract
	Georgiou, et al., Ciprofloxacin-Resistant Haemophilus influenzae Strains Process Mutations in
	Analogous Positions of GyrA and ParC, Antimicrobial Agents and Chemotherapy, 40(7): 1741-1744,
	(1996)
	Gill et al., Identification of an efflux pump gene, pmrA, associated with fluoroquinolone resistance in
	streptococcus pneumoniae, Antimicrobial Agents and Chemotherapy, Jan. 1999, 187-189
	Gonzalez et al., Fluoroquinolone resistance mutations in the parC, parE, and gyrA genes of clinical
:	isolates of viridans group streptococci, Antimicrobial Agents and Chemotherapy, Nov. 1998, 2792-
	2798
	Graul, A., et al., SB-265805/LB-20304a Naphthyridine Antibacterial, Drugs Future, Vol 23(11) 1199-
	1204 (1998)
	Hooper, Mode of Action of Fluoroquinolones, Drugs, Vol 58, Suppl 2, 6-10 (1999)
	Jacobs, Treatment and Diagnosis of Infections Caused by Drug-Resistant Streptococcus pneumoniae,
	Clinical Infectious Diseases, 15: 119-127 (1992)
	Jacobs, et al., Antibiotic-resistant pneumococci, Review in Medical Microbiology, 6(2): 77-93 (1995)
	Jacobs, et al., Susceptibilities of Streptococcus pneumoniae and Haemophilus influenzae to 10 Oral
	Antimicrobial Agents Based on Pharmacodynamic Parameters: 1997 U.S. Surveillance Study,
	Antimicrobial Agents and Chemotherapy, 43(8): 1901-1908 (1999)
	Janoir et al, High-level fluoroquinolone resistance in streptococcus pneumoniae requires mutations in
	parC and gyr A, Antimicrobial Agents and Chemotherapy, Dec 1996, 2760-2764
	Johnson, D.M., et al., Anti-Streptococcal Activity of SB-265805 (LB20304), a Novel
	Fluoronaphthyridone, Compared With Five Other Compounds, Including Quality Control Guidelines,
	Diagn Microbiol Infect Dis 1999; 33:87-91
	Journal of Antimicrobial Chemotherapy, 21st International Congress of Chemotherapy, Birmingham
	UK, July 4-7, 1999, Suppl. A to Vol. 44 July 1999, pp. 125-127, 130-132, 135-136, 139-142, 144-
	148; 21st ICC poster nos. P 385, 386, 391, 406, 408, 413, 429, 434, 449, 452, 454, 460-462, 474, 477,
	482, 484, 486-488, 491, 492
	McDougal, et al., Analysis of Multiply Antimicrobial-Resistant Isolates of Streptococcus pneumoniae,
	Antimicrobial Agents and Chemotherapy, 36(10): 2176-2184 (1992)
	Munoz et al, ParC subunit of DNA topoisomerase IV of streptococcus pneumoniae is a primary target
	of fluoroquinolones and cooperates with DNA gyrase A subunit in forming resistance phenotype,
	Antimicrobial Agents and Chemotherapy, Oct 1996, 2252-2257

,	
	Licata, et al., Comparison of the Postantibiotic and Postantibiotic Sub-MIC Effects of Levofloxacin
	and Ciprofloxacin on Staphylococcus aureus and Streptococcus pneumoniae, Antimicrobial Agents
	and Chemotherapy, 41(5): 950-955 (1997)
	Pan, et al., Involvement of Topoisomerase IV and DNA Gyrase as Ciprofloxacin Targets in
	Streptococcul pneumoniae, Antimicrobial Agents and Chemotherapy, 40(10): 2321-2326 (1996)
	Pan et al., Targeting of DNA gyrase in streptococcus pneumoniae by sparfloxacin: selective targeting
	of gyrase or topoisomerase IV by quinolones, Antimicrobial Agents and Chemotherapy, Feb. 1997, 471-474
	Pan et al., DNA gyrase and topoisomerase IV are dual targets of clinafloxacin action in streptococcus
	pneumoniae, Antimicrobial Agents and Chemotherapy, Nov. 1998, 2810-2816
	Pankuch, et al., Study of Comparative Antipneumoccal Activities of Penicillin G, RP 59500,
	Erythromycin, Sparfloxacin, Ciprofloxacin, and Vancomycin by Using Time-Kill Methodology,
	Antimicrobial Agents and Chemotherapy, 38(9): 2065-2072(1994)
	Pankuch, et al., Activity of CP99.219 compared with Du-6859a, ciprofloxacin, ofloxacin,
	levofloxacin, lomefloxacin, tosufloxacin, sparfloxacin and grapafloxacin against penicillin-susceptible
	and-resistant pneumococci, Journal of Antimicrobial Chemotherapy, 35: 230-232 (1995)
	Pankuch, et al., Antipneumococcal Activities of RP59500 (Quinupristin-Dalfopristin) Penicillin G,
	Erythromycin, and Sparfloxacin Determined by MIC and Rapid Time-Kill Methodologies,
	Antimicrobial Agents and Chemotherapy, 40(7): 1653-1656 (1996)
	Perichon et al., Characterization of a mutation in the parE gene that confers fluoroquinolone resistance
	in streptococcus pneumoniae, Antimicrobial Agents and Chemotherapy, May 1997, 1166-1167
	Piddock et al., Activities of new fluoroquinolones against fluoroquinolone-resistant pathogens of the
	lower respiratory tract, Antimicrobial Agents and Chemotherapy, Nov. 1998, 2956-2960
	Piddock, Mechanisms of Fluoroquinolone Resistance: An Update 1994-1998, Drugs, Vol 58, Suppl 2,
	11-18 (1999)
	Reinert, R.R., et al., In Vitro Activity of SB-265805 Against Streptococcus pneumoniae in Germany,
	Clin. Microbiol. and Infection, 1999, Vol. 5, Suppl. 3, 143, Abstract P219, and poster P219 (ECCMID
	March 1999, Germany)
	Smirnov, A. et al., Gemifloxacin is Effective in Experimental Pneumococcal Meningitis, Clin.
	Microbiol. and Infection, 1999, Vol. 5, Suppl. 3, 144, Abstract P223, and poster P223 (ECCMID
	March 1999, Germany)
	Spangler, et al., Susceptibilities of Penicillin-Susceptible and -Resistant Strains of Streptococcus
	pneumoniae to RP59500, Vancomycin, Erythromycin, PD 131628, Sparfloxacin, Temafloxacin, Win
	57272, Ofloxacin, and Cirpofloxacin, Antimicrobial Agents and Chemotherapy, 36(4): 856-859
	(1992)
	Spangler, et al., Susceptibility of 170 penicillin-susceptible and penicillin-resistant pneumococci to six
	oral cephalosporins, four quinolones, desacetylcefotaxime, Ro 23-9424 and RP 67829, Journal of
	Antimicrobial Chemotherapy, 31: 273-280 (1993)
	Spangler, et al., Postantibiotic Effect and Postantibiotic Sub-MI Effect of Levofloxacin Compared to
	Those of Ofloxacin, Ciprofloxacin, Erythromycin, Azithromycin, and Clarithromycin against 20
	Pneumococci, Antimicrobial Agents and Chemotherapy, 42(5): 1253-1255 (1998)
	1

Predecessor Application No. 10/323,101 Attorney Docket P50955RC3

	Tankovic et al, Contribution of Mutations in gyrA and parC genes to fluoroquinolone resistance of mutants of streptococcus pneumoniae obtained in vivo and in vitro, Antimicrobial Agents and Chemotherapy, Nov 1996, 2505-2510			
	Visalli, et al., MIC and Time-Kill Study of Activities of DU-6859a, Ciprofloxacin, Levofloxacin, Sparfloxacin, Cefotaxime, Imipenem, and Vancomycin against Nine Penicillin-Susceptible and-Resistant Pneumococci, Antimicrobial Agents and Chemotherapy, 40(2): 362-366 (1996)			
·	Zeller et al., Active efflux as a mechanism of resistance to ciprofloxacin in streptococcus pneumoniae, Antimicrobial Agents and Chemotherapy, Sept. 1997, 1973-1978			
EXAMINER	DATE CONSIDERED			
	EXAMINER - Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

n:\ljh\applications\\P5's\P50955RC3\1449 form 3.doc

4 1 <u>14</u> .

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office		PREDECESSOR SERIAL NO. 10/323,101	
BY APPLICANT		APPLICANT Bast, et al.		
		FILING DATE Herewith	GROUP	

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,633,262	5/27/97	Hong et al.			
	5,776,944	7/7/98	Hong et al.			
	5,869,670	2/9/99	Hong et al.			
`	5,962,468	10/5/99	Hong et al.			

FOREIGN PATENT DOCUMENTS

Document Number:	Date	Country	Class	Subclass	<u>Translation</u> Yes I No
WO 98/42705	01.10.98	PCT		٠.	
EP 688772 A1	27.12.95	EPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	G. Cormican, "Comparative Antimicrobial and Spectrum Activity of LB20304a, a New Fluoronated
	Naphthyridone Compound", Abstracts of the 36th ICAAC, 109 Abst F53 (1996)
	J-H. Kwak, "Antimicrobial Activities of LB20304a, a New Quinolone Antibiotic", The Journal of
	<u>Applied Pharmacology</u> (4) pp. 378-384 (1996)
	M-K. Seo, "Pharmacokinetics of LB20304, a New Fluoroquinolone, in Rats and Dogs", Arch. Pharm. Res. Vol. 19, No. 5, pp. 359-367 (1996)
	C. Yong Hong, et al., "Novel Fluoroquinolone Antibacterial Agents Containing Oxime-Substituted
	(Aminomethyl) pyrrolidines: Synthesis and Antibacterial Activity of 7-(4-(Aminomethyl)-3-
	(methoxyimino) pyrrolidin-1-yl)-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydro [1,8] naphthyridine-3-
	carboxylic Acid (LB20304)", <u>J. Med. Chem.</u> 40 (22) pp. 3584-3593 (1997)
	M-K. Seo et al., "High Performance Liquid Chromatographic Assay of a New Fluoroquinolone,
	LB20304, in the Plasma of Rats and Dogs", <u>Arch. Pharm. Res.</u> Vol. 19, No. 6, pp. 554-558 (1996)
	M-J. Ahn, et al., "InVivo Efficacy of LB20304a against Experimental Respiratory Tract Infection in
	Mice", Yakhak Hoeji Vol. 40, No. 4, pp. 438-441 (1996)
	M-J. Ahn, et al., "Effect of a New Fluoroquinolone LB20304a on Microflora of Caecum in Mice",
	<u>Yakhak Hoeji</u> Vol 40, No. 3, pp. 343-346 (1996)
	K-S. Paek, et al., "Factors Affecting In Vitro Activity of LB20304, New Fluoroquinolone", Arch.
	Pharm. Res. Vol. 19, No. 2, pp. 143-147 (1996)
_	M-J. Ahn, et al, "Post-Antibiotic Effect of LB20304, A New Quinolone Antibiotic", Yakhak Hoeji
	Vol. 40, No. 3, pp. 347-350 (1996)
	F. Marco, et al., "Antimicrobial Activity of LB20304, a Fluoronaphthyridone, Tested Against
	Anaerobic Bacteria", J. Antimicrobial Chemother Vol. 40, No. 4, pp. 605-607 (1997)
	M. G. Cormican, et al, "Antimicrobial Activity and Spectrum of LB20304, a Novel
	Fluoronaphthyridone", Antimicrobial. Agents. Chemotherapy Vol. 41, No. 1, pp. 204-211 (1997)
	A. F. Hohl, et al, "International Multicenter Investigation of LB20304, a New Fluoronaphthyridone",
	Clin. Microbiol. Infect. Vol. 4, No. 5, pp. 280-284 (1998)
	DATE CONSIDERED

Sheet <u>2</u> of <u>2</u>

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office		PREDECESSOR SERIAL NO. 10/323,101	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Bast, et al.		
(Use seve	eral sheets if necessary)	FILING DATE Herewith	GROUP	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	OTHER DOCOMENTS (Including Admor, Time, Date, Perlinent Pages, Etc.)
	K-S. Paek, et al, "Bactericidal Activities of LB20304, a New Fluoroquinolone", Arch. Pharm. Res.
	Vol. 19, No. 4, pp. 317-320 (1996)
	M. Kim, et al, "In Vitro Activities of LB20304, a New Fluoroquinolone", Arch. Pharm. Res. Vol. 19,
	No. 1, pp. 52-59 (1996)
	M-Y. Kim, et al, "Bacterial Resistance to LB20304, a New Fluoroquinolone Antibiotic, Arch. Pharm.
	Res. Vol. 19, No. 5, pp. 400-405 (1996)
	J-I. Oh, et al, "In Vitro and In Vivo Evaluations of LB20304, a New Fluoronaphthyridone",
	Antimicrobial Agents and Chemotherapy Vol. 40, No. 6, pp. 1564-1568 (1996)
	Kelly et al., "Antipneumococcal Activity of SB 265805 (A New Broad Spectrum Quinolone)
	Compared with Nine Compounds by MIC," 38th ICAAC, San Diego CA, Abst F-87, p. 254 (1998)
	J-I. Oh et al., "In vitro and In vivo Antibacterial Activities of LB20304, a New fluoronaphthyridone,"
	Abstracts of the 35th ICAAC, p. 148, S-122, Abst F205 (1995)
	Y-K. Kim et al., "Synthesis and Antibacterial Activities of LB20304: A New Fluoronaphthyridone
,	Antibiotic Containing Novel Oxime Functionalized Pyrrolidine," Abstracts of the 35th ICAAC, p.
	148, S-122, Abst F204 (1995)
	;
<u> </u>	· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·
-	
<u> </u>	DATE CONSIDERED
	17:112-23:112-112

n:\loretta\applications\p5\s\p50955r\p50955rc3\1449 formc3.doc

	2 1 4 4 6			1				Sheet_	
Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office					. DOCKET NO. 955RC3		PREDECESSOR SERIAL NO. 10/323,101		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)					APPLICANT Bast, et al.				
					G DATE with		GROUP 1614		
			LLC DATE	UT DOC	INACNITO		<u> </u>		
Examiner Initial		Document Number	U.S. PATE		ame	Class	Subclass	Filing Date If Appropriate	
			FOREIGN PA	TENT DO	CUMENTS				
		Document Number	Date	Co	untry	Class	Subclass	<u>Translation</u> Yes No	
					·	•			
				· · ·					
	CA	SB-265805 A Pote and Chemotherapy	ent New Quinolone, y, ICAAC, San Diego II, September 26th 1	38th Ann Conven	ual Interscience tion Centre, 105	Conferenc 5-F Poster S	e on Antimic Session, New		gents
									
					· · · · · · · · · · · · · · · · · · ·				
		_							
		-		- 	 				
			·	3.1					
EXAMINER					DATE CONSIDERED				
·EXAMINEI	R: Initio	al if citation conside	red, whether or not considered. Inclu	itation is i	n conformance	with MPEP	609; Draw line	through	n nt
N:\loretta\Ap	plication	s\P5's\P50955R\P50955C2	\1449 FormRCE.doc		O. Alio IOIIII WIIII	HOAT COITIN	iai iicaiioi i io c	applicul.	